

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplie
	MEC002- VU	1	1	Net 30	M707516S1.259X2.000	7075-T6 Sheet 1.250"" X 2.000"": MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS-4045 OR ASTM B209 receive ft				48	1/8/2018	48	3 7	S030137	Stock	1/2/2018	\$ 20.12 / ft	6		\$965.76	Metaux Castle
		2		9	M707516S6.009X0.250	7075-T6S Sheet 6 th Thick Plate X 0.25 th Wide: MATERIAL: 7075-T6:T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft				12	8	12	7	S030138	Stock	1/2/2018	\$ 20.75 / ft	6		\$249.00	Metaux Castle
		3				MT075T6S0.750X1.250 : MATERIAL: 7075- T67f62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft						12		\$030139	Stock	1/2/2018	\$ 16.45 / ft	6		\$197.40	Metaux Castle
		4		-		7075-T6S Sheet .375 th Thick Plate X 6 th Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft				24		24		5030140	Stock	1/2/2018	\$ 25.68 / ft	6		\$616.32	Metaux Castle
		5				7075-T6 Sheet 1.750" X 2.250": MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM 3209 receive ft				48		48		6030141	Stock	1/2/2018	\$ 28.62 / ft	6	\$	1,373.76	Metaux Castle
					3	7075-T6S Sheet 4.000" Thick X 3.000" Wide: MATERIAL: 7075- 16/T62 ALUMINUM SHEET AS PER QQ-A- 150/12 OR AMS-QQ-A- 150/12 OR AMS 4045 DR ASTM B209 receive				24		24	s	6029879	Stock 1	/5/2018	\$ 82.35 / ft	3	\$	1,976.40	Metaux Castle
		1			L 7 A P A A	075-T6 Sheet 4.000' X .000" cut to size: 32" ONG: MATERIAL: 075-T6/T62 LUMINUM SHEET AS 'ER QQ-A-250/12 OR MS-QQ-A-250/12 OR MS-QQ-A-250/12 OR MS-Q0-A-250/12 OR MS-Q0-A-250/12 OR				27		27	6	029880 S	stock 1	5/2018	5 94.50 / ft	3	\$2	2,520.32	Metaux Castle
						200 lengthe if			Total:	195	-	195		+	-			+	\$7.8	898.96	



A. M. Castle & Co.

Ship From:		Sold To:		Ship To:	Pack Slip No:2802179
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	ada) Inc. v 2K7	DART AEROSPA 1270 ABERDEEI ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.		Freight Terms	Carrier	BOI NO
02-JAN-2018	ORIGIN		Prepaid	FLEET	2814999 121506248
Shipment Details				Simil Destination	
				rilla) Destination branch -	
Order No	Line No	Item	n No	Asseriation	
4986350	-	752	752114.MO	1.2500.PL.7075.T651.ALUMINI IM 1.31.2 000 144 5000	M USI 2 000 144 5000
				CUT RECTANGLE TO 2 IN () X ALL PAPERWORK MUST FOLI TIME OF DEI IVERY	CUT RECTANGLE TO 2 IN () X 144.5 IN () SPECIFICATIONS, AMS-QQ-A-250/2 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DEI IVERY
				ALL MATERIAL MUST HAVE IDENTIFYING IN	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S
Purchase Order No	-	Part Number		Ordered Ofv	Invaios Ott.
38631				4.00 PCS	4.00 PCS
Details	ALL P. ALL M. Fmail	ALL PAPERWORK ALL MATERIAL MU Fmail P/s and certs		MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY IST HAVE IDENTIFYING MARKINGS EX:HEAT #'S for classic@datass.	TIME OF DELIVERY
	END	END USER: DART	T AEROSPACE		0 708
Mill/Source	Hoat	Hoat Kilmhar	Mach Indianal PAK		0 - 10 - 8 - 01 - 0
(100)	248607B4	784	Wecn ID PCS	Width (IN)	Length (IN) Shipped Qty (LBS)
000		\			
We hereby cartify the material coverer Test reports are on file subject to exar for credit.	d by this certification mination. All claims	n conforms in acc. for defective male	ordence with the above specifications and has terial are waived unless made in writing to AM	been found to meet the applicable requirements for Castle & Co. within 80 days of the shipment. Mat	Wo horeby confly the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any professive material are waived unless made in writing to AM, Castle & Co, within 80 days of the shipment. Material cyl to the correct sizgion material cut by the customer cannot be introved for credit.
Reviewed by Authorized Castle Molais Representative:	is Reprosentative;		3	Date 1/26/14 Name:	The state of the s
			000 TO	da	
					•



A. M. Castle & Co.

Ship From:	S	Sold To:		Shirt To		Pack Slip No:2802177
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	TD WKESBURY,	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Deliver I o: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 02-JAN-2018	F.O.B. ORIGIN	Freight Terms Prepaid	Lms	Carrier LOCAL FLEET	BOL No 2814997	Delivery No
Shipment Details				Final Destination Branch -	11	14:000241
Order No	l ino No	from No.				
4986350	2	750488.MO	1	LOSCRIPTION 1.7500.PL.7075.T651.ALU CUT RECTANGLE TO 2.2 AMS-QQ-A-25012 ALL PAPERWORK MUST TIME OF DELIVERY ALL MATERIAL MUST HA	USSCRIPTION 7.7500.PL.7075.T651.ALUMINUM.USI.2.250.144.5000 CUT RECTANGLE TO 2.25 IN () X 144.5 IN () SPECIFICATIONS: AMS-QQ-A-25012 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	ATIONS: R MUST RECEIVE AT EX:HEAT #'S
Purchase Order No	Par	Part Number		Email P/s and certs to: clavole@dartaero.com	vole@dartaero.com	Control of the Contro
38631				4.00 PCS	Invoice Qty 4.00 PCS	
Details	ALL PAPERWOF ALL MATERIAL I Email P/s and ce	ALL PAPERWORK MUST FOLLOW ORDER / ALL MATERIAL MUST HAVE IDENTIFYING N Email P/s and certs to clavoie@dartaero.com	LLOW ORDER / I IDENTIFYING M,	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com	EAT TIME OF DELIVERY	
	END USE	END USE: COMMERCIAL AIRCRAFT PARTS	ICEAFT PARTS	(PET	イマメーち
MIII/Source	Heat Number 704550B3	Mer Me	Mech ID P	PCS Width (IN)	Length (IN) Sh	Shipped Qty (LBS)
		had			23	735.6436
We hereby certify the material covered Test reports are on file subject to examil for credit.	y this certification cor nation. All claims for o	nforms in accordance with the ab defective material are waived unt	bovo spocifications and ha less made in writing look	boon found to meet the applicable required to the shipm	We hereby certify the material covered by this certification conforms in accordance with the above specifications and has toon found to meet the applicable requirements for the material are waived unless made in writing towards. All claims for defective material are waived unless made in writing towards. All claims for defective material are waived unless made in writing towards. All claims for defective material are waived unless made in writing towards.	ons forming a part of the description. cut by the customer cannot be returned
NAVAWOU UY AIAINDIKED CASIIB MEIBIS	(eprosentativo:		5 0	Do Date A Mame	Mr. Wil	
			5	2027		AND THE RESERVE THE PERSON OF



A. M. Castle & Co.

110				Pack Slip No:2802178
Ship From:		Sold To:	Ship To:	Deliver To:
A. M. Castle & Co. Los Angeles 14001 Orange Avenue Paramount, CA 90723		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shinned	900			
Date Ollipped	7.0.0.	rreignt lerms		BOL No Delivery No
0Z-JAN-ZU18	ORIGIN	Prepaid	BO-SHIP DIRECT 281	2814998 121500852
Shipment Details			Final Bastinneian Decade	
			i maracestinanon bianch :	
Order No	Line No	Item No	Sescription	
4984539	က	750023.MO	0.2500.PL.7075.T651.ALUMINUM.48.5000.144.5000	0.2500.PL.7075.T651.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 6 IN (+ 1250, 0000 IN) x 444 6 IN (+ 4250, 0000 IN) X 445 6 IN (+ 4250, 0000 IN) X 445 6 IN (
			ALUMINUM PLATE SAW SPECIFICATIONS: AMS-00-4-2507-	ATIONS: AMS-00-4-2501
Purchase Order No	Pe	Part Number	Ordered Qfv	Invalue Otto
38631			1.00 PCS	1.00 PCS
Details	ALL PA ALL MA	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	CUSTOMER MUST RECEIVE AT TIM ARKINGS EX:HEAT #'S	E OF DELIVERY
	Email P END US	Email P/s and certs to: clavole@dartaero.com END USER: DART AEROSPACE		- C C C C C C C C C C C C C C C C C C C
	END US	END USE: COMMERCIAL AIRCRAFT PARTS)) >> >
Mill/Source	Heat Number	Mech ID	PCS Width (IN)	anoth (IN) Shipped Ot. (1 PC)
KAISER ALUMINUM	(682592A1	A1 Las		22.8550
These items are controlled by the U.S. any other country or to any person oil by U.S. taw and regulations.	. Government and au or than the authorize	uthorized for export only to the country of uttrnate dostinatic d uttimate consignce or end-user(s), either in their original t	on for use by the ultimate consignee or end-user(s) herein form or affer being incorporated into other floms, without fi	Those items are controlled by the U.S. Government and authorized for export only to the country of utlimate destination for use by the utlimate consignee or end-used by the utlimate or
We hereby cardify the material coverer Test reports are on file subject to exar for credit.	by this certification of trination. All claims for	conforms in accordance with the above specifications and har defective material are waived unless made in writing to	is been found to meet the applicable requirements for the	We hereby cardly the material covered by this cardification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any spacifications forming a part of the description. All claims for defective material are waived unless made in writing to the second of any of the subject to examination. All claims for defective material are waived unless made in writing to the second of any of the subject to examination. All claims for defective material are waived unless made in writing to the subject to examination. All claims for defective material are waived unless made in writing to the applicable of the subject to examination. All claims for defective material are waived unless made in writing to the applicable of the subject to examination. All claims for defective material are waived unless made in writing to the applicable of the subject to examination. All claims for defective material are waived unless made in writing to the applicable of the subject to examinate the subject to ex
Reviewed by Authorized Castle Metals Representative:	Representative:	2	Only Name:	M
			002.40	



CERTIFICATE OF CONFORMANCE PACKING SLIP/

Page 1 of 1

					Pa	Pack Slip No: 2802178
Ship From:		Sold To:		Ship To:	Deliver To:	
A. M. Castle & Co.		DART AER	DART AEROSPACE LTD	DART AFROSPACE I TO	DADT AEDOODACE	4
Los Angeles		1270 ABER	1270 ABERDEEN HAWKESBURY.	1270 ABERDEEN	1270 AREDDEEN LANAW	Myrespinov Cargos
14001 Orange Avenue		ON K6A 1K	1K7 CA	HAWKESBURY ON K6A 1K7 CA	1270 ABENDEEN HAWKESBURY, ON KGA	WESBURY, ON KEA
Paramount, CA 90723					-	
Date Shipped	F.O.B.		Freight Terms	Carrier	NO NO	Deliver
02-JAN-2018	ORIGIN		Prepaid	BO-SHIP DIRECT	2814998	121500BE2
						121300032
Shipment Details				Final Destination Branch -		
					THE RESERVE THE PROPERTY OF TH	
Order No	Line No	Item No	No	Description		
4984539	4	750	750157.MO	0.7500.PL. 7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 1.25 IN (+ .1250/0000 IN) X 144.5.IN (+ .1250/0000 IN)	IM.USI.48.5000.144.5000 50/0000 IN) X 144.5 IN (+	- (NI 0000 -)050/-
Purchase Order No		Part Number		Ordered Ofv	ILICATIONS: AMS-CC-A-ZO	21412
38631				1.00 PCS	1.00 PCS	
Details	ALL P	ALL PAPERWORK ALL MATERIAL MI	RECORD AND A FOLLOW ORDER / CUSTOMER MUST RECOMES TALLED THAVE IDENTIFYING MARKINGS EXTHEAT #19	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS, FX-HEAT #1°C	TIME OF DELIVERY	
	Email		Email P/s and certs to: clavole@dartaero.com		8	000
	END	END USE: COMMI	END USE: COMMERCIAL AIRCRAFT PARTS		t	· X () X
Mill/Source	Heath	Heat Number	/ Mech ID / PC	PCS Width (IN)	I anoth (IN)	china de la companya
KAISER ALUMINUM	(234628B6					aged any (LBS)
These ileas one seeks had been)		: : : ر			
any other country or to any person of	s. Government and a her than the authoriz	authorized for expe zed ultimate consis	or only to the country of ultimate destination	inches remains the common by the Cox Cox Common and an inches remains the country of the mitmate destination for use by the utilization of the country of the utilization for use by the country of the country of the country of the utilization for use by the country of the coun	eroin identified. They may not be resold, tra	ansforred, or otherwise disposed of to

orginal form or after boing incorporated into alter flows, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hareby cordify the material covered by this certification conforms in accordance with the above specifications and has been lound to meal the applicable requirements for the material covered by this certification conforms in accordance with the above specifications and the applicable of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned Reviewed by Authorized Castle Molats Representative:



A. M. Castle & Co.

				Pack Slip No:2802178
Ship From:	Sold To:	To:	Ship To:	Deliver To:
A. M. Castle & Co. Los Angeles 14001 Orange Avenue Paramount, CA 90723	DART AE 1270 ABE ON K6A 1	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DAŘT AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.O.B.	Freight Terms	Carrier	BOI No
02-JAN-2018	ORIGIN	Prepaid	BO-SHIP DIRECT	
Shipment Details			Final Destination Branch -	
Order No	Line No	Item No	Description	
4984539	5	750067.MO	0.3750.PL.7075.T651.ALUMINUM.48.5000.144.5000	
			CUT 2SIDED TO 6 IN (+ .1250/0000 IN) X 144.5-IN-(ALUMINUM PLATE SAW SPECIFICATIONS AMS-DO	CUT 2SIDED TO 6 IN (+ .1250/0000 IN) X 144.5 IN (+ .1250/0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-DO-A-250/12
Purchase Order No	Part Number	ımber	Ordered Qtv	Transfer Civ
38631			2.00 PCS	2.00 PCS
Details	ALL PAPERWOR	VORK MUST FOLLOW ORDER / GUSTOMER MUST REC AL MUST HAVE IDENTIFYING MARKINGS, EX:HEAT #'S	RK MUST FOLLOW ORDER / GUSTOMER MUST RECEIVE AT TIME OF DELIVERY MUST HAVE IDENTIFYING MARKINGS. EX-HEAT #/S.	TIME OF DELIVERY
	Email P/s and			ひろくろう
	END USE:	END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS	(, P 7 × 7
Mill/Source	Heat Number	/ Mech ID	PCS Width (IN)	I anoth (IN)
KAISER ALUMINUM	245158B1			
Those items are controlled by the U. any other country or to any person o by U.S. law and regulations.	S. Government and authorized ther than the authorized uttimat	for export only to the country of ultimate destination to consigned or end-user(s), althor in their original for	n for use by the ultimate consignee or end-user(s) I Am or after being incorporated into other items, wil	These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consigned or export only to the country of ultimate consigned or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.
We hereby cortify the material coven Test reports are on file subject to exe for credit.	od by this certification conforms imination. All claims for defect	in accordance with the above specifications and have material are waited unloss made in writing to A.N.	is boon found to most the applicable requirements.	We hareby cortify the material covered by this certification conforms in accordance with the above specifications and has been found to most the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M.C. mithin 60 days of the shipment. Material concet size, or published to use the customer cannot be returned for credit.
Reviewed by Authorized Castle Motats Ropresonlative:	ils Ropresentative;	20	The Date A Name:	
		C.P.	C.002 tO	



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038631

Tel (613) 632-5200

MEC002-VU Supplier:

Metaux Castle

P.O. Box 4090 Stn A

Toronto

ON M5W OE9 Canada PO No:

PO038631

PO Date:

12/12/17

Due Date:

1/8/18

Purchase Order

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone: clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms: **Special Comments:**

Line				Due	Order	Received		Unit Price (USD)	Extended Price
ltem	Part	Description	Status		Quantity	Quantity			\$965.76
1		7075-T6 Sheet 1.250" X 2.000" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12/OR AMS 4045 OR ASTM B209 receive ft			/48 ft	√8°1	£ .	\$20.12/ft	
2		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 regeive ft	Firmed		/ 12 ft	126	12 ft	\$20.75/ft	\$249.00
3		M7075T6S0.750X1.250 : MATERIAL: 7075- T6/T62 ALUMINUM SHEET ÅS PER QQ-A- 250/12/OR AMS-QQ-A- 250/12/OR AMS 4045 OB ASTM B209	Firmed	1/8/18	12 ft	12F	12 ft	\$16.45/ft	\$197.40
4		7075-T6S Sheet .375" Thick Plate X 6" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	<i>J</i> 24 ft	0 ft	24 ft	\$25.68/ft	\$616.32

017			1 01(01)	OL ON	DEIN				
2		,	Items						
Line Item		Description	Status	Due Date	Order Quantity	Received Quantity	Balance		Extended Price
5	M7075T6S1.750X2.250	7075-T6 Sheet 1.750" X 2.250" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	48 ft	£8'	48 ft (\$28.62/ft	\$1,373.76
6	M7075T6S4.000X3.000	7075-T6S Sheet 4.000" Thick X 3.000" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	24 ft	0 ft	24 ft	\$82.35/ft	\$1,976.40
Line Item	Note cut in section of 4 ft								
7	M7075T6S4.000X4.000	7075-T6 Sheet 4.000' X 4.000" cut to size: 32" LONG : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18		0 ft 26.1	do7 1	694.500236/ft s	
Line Item	Note 10 pcs cut at 32" lenght								

Grand Total: \$7,898.68

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/13/17 11:11 AM dart.lavoie.chantal

Chantal Lavoie

From:

Desbiens, Marc < mdesbien@amcastle.com>

Wednesday, December 13, 2017 11:03 AM

Sent: To:

Chantal Lavoie

Subject:

RE: quote

Hi Chantal,

Sorry

7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$82.35 Ft

Thanks

Marc Desbiens Inside sales representative Castle Metals, Montreal, QC Direct line 514-795-8176 1-800-806-6660 ext 52226 Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

From: Chantal Lavoie [mailto:clavoie@dartaero.com]

Sent: Tuesday, December 12, 2017 2:06 PM

To: Desbiens, Marc Subject: RE: quote

Hi Marc,

For mat'l 7075-t6 plate 4 x 3 wow is it really 215.52 a ft.

Thanks Chantal

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]

Sent: Monday, December 11, 2017 1:59 PM
To: Chantal Lavoie < clavoie@dartaero.com>

Subject: RE: quote

Hi Chantal,

price an delivery on mat'l.

7075-t6 bar 1.250" x 2" x 12 ft \$ 20.12 Ft 70175-t6 bar 6" x 0.250" x 12 ft \$ 20.75 Ft 7075-t6 bar 1.250" x 2" x 36 ft \$ 20.12 Ft 7075-t6 bar 0.750" x 1.250" x 12 ft \$ 16.45 Ft 7075t6 bar 0.375" x 6" x 24 ft \$ 25.68 Ft
7075-t6 bar 4.5" x 5" x 12 ft cut in section 4 ft Regret, 4" max
7075-t6 bar 1.750" x 2.250" x 24 ft \$ 28.62 Ft
7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$ 215.25 Ft
7075-t6 bar 4" x 4" x 10 pcs cut At 32" \$ 252.00 piece

These would all be cut from plate

All 3 weeks

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370
Customized Supply Chain Solutions for Your Metal Needs

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Chantal Lavoie

From:

Desbiens, Marc <mdesbien@amcastle.com>

Sent:

Monday, December 11, 2017 1:59 PM

To:

Chantal Lavoie

Subject:

RE: quote

Hi Chantal,

price an delivery on mat'l.

7075-t6 bar 1.250" x 2" x 12 ft \$ 20.12 Ft 70175-t6 bar 6" x 0.250" x 12 ft \$ 20.75 Ft

7075 t6 bar 1.250" x 2" x 36 ft \$ 20.12 Ft

7075-t6 bar 0.750" x 1.250" x 12 ft \$ 16.45 Ft

7075t6 bar 0.375" x 6" x 24 ft \$ 25.68 Ft

7075-t6 bar 4.5" x 5" x 12 ft cut in section 4 ft Regret, 4" max

7075-t6 bar 1.750" x 2.250" x 4 ft \$ 28.62 Ft

7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$ 215.25 Ft

7075-t6 bar 4" x 4" x 10 pcs cut At 32" \$ 252.00 piece - 26.6664.

These would all be cut from plate

All 3 weeks

Thanks

Marc Desbiens Inside sales representative Castle Metals, Montreal, QC Direct line 514-795-8176 1-800-806-6660 ext 52226 Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

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SHIP TO:

HADCO METAL TRADING CO. LLC SHIP TO STOCK 555 STATE ROAD BENSALEM, PA 19020

SOLD TO:

HADCO METAL TRADING CO. LLC 555 STATE ROAD BENSALEM, PA 19020



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586



CERTIFIED TEST REPORT

Serial Number 4478709

CUSTOMER PO NUMBER: 098007-3	WORK PA	CKAGE:	CUSTON	MER PART N	NUMBER:	- 1		RUNILOAD:	GOVTC	ONTRACT	NUMBER:	
KAISER ORDER NO:	ISHIP	DATE:	Atte	5% IC	LAD: ITE	MRER		PRODUCT	FSCRIPTI	ON:		
1242581-3	20-	SEP-201	V	-1	1/	651		KaiserSe				
WEIGHT SHIPPED: QUA	NTITY:	TRUC	K B/L #:		AUGE:			AMETER/W	DTH:	LENGTH:		
3766 LB 3 F	CS EST	2069	9094	/ 1	.7500 IN (44,4	500 M		8.500 IN	231 9 MM)	144.50	אוכ	(3670.3 MM)
MHU 2153028: LQT	704550B3:	3 pieces	s;					- · · · · · · · · · · · · · ·		1		(20,000,000)
		Cu,	Ce	rtified S	pecifica	tion	S					
AMS 4045/Revi	_	1	A	MS-QQ-A	-250/12)R	RevA			ASTM	B 209/R	ev14	
Test Code: 1512				Test	Results							
Lot: 704550B3 C	ast 534	D	rop 30		Ingot 1		Pa	rent Lot:	245163	B1	Melted	In USA
(ASTM E8/8557) (EN 2002-1)												
Tensile: Temper	Dir / #	Tests		Ultimate	KSI (MPA)	rield	KSI (MPA	.)	Elongatio	л %	
T651	LT / 2	(Min:Ma	ax)	80.8:8	333.773	7	71.2	: 72.3		12.5:1		
				(557:5	63)	(491	: 499)				
(ASTM E1251)												
Chemistry: SI	FE	CU	MN	MG	CR		ZN	T!	V	ZR		OTHER
Actual(wt%) 0.07	0.13	1.4	0.03	2.6	0.20	5	8.8	0.02	0.01	0.01	TOT	0.03
				ALLOY	LIMITS							
7075	FE	cu	MN	MG	CR	2	ZN	TI	V	ZR	OTHER	MAX
MIN(wt%) 0.00	0.00	1.2	0.00	2.1	0.18	5	.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%) 0.40	0.50	2.0	0.30	2.9	0.28		.1	0.20	0.05	0.05	TOT	0.05

Aluminum Remainder



Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4478709

CERTIFICATION

Kesser Aluminum, Trantwood Works, is ISO 3001, ASS100, and ISO 14001 certifies, and hereby certifies that all material shipped under this order:

* has been impacted, tested, and found to but in conformable with the requirements of the specification; indicated herein.

All test equipment and measuring elevities are adherated and certified in accordance to the specification indicated herein.

All test equipments and measuring elevities are adherated and certified in accordance to the specification indicated herein.

All test equipments and measuring elevities are as shown herein and chemical composition meets specification requirements. Reported elevations was measured as alongation at tracture.

**as metical into Junior States of America of a conditional contribution in the United States of America, and meas the requirements of DEARS 252.225 for domestic content.

**Ans been intermelly processed in compliance with AMS 2772, where applicable.

**a mentically free, within the limits of detection of ASTM 517.5 (<)ppmh.

**demonstrated in the Junior States of America of a condition of ASTM 517.5 (<)ppmh.

**demonstrated in the Junior States of America of a detection of ASTM 517.5 (<)ppmh.

**demonstrated in the Junior States of America of a detection of ASTM 517.5 (<)ppmh.

**demonstrated in the Junior States of America of America

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2





CERTIFIED TEST REPORT Constellium Rolled Products

s	A M CASTLE & CO.
H	14001 ORANGE AVE
Р	PARAMOUNT CA 90723
Т	US

0 L D T Ravenswood, LLC

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

A M CASTLE

							0		
A M CAST	TLE	11055	1463	4075		INCLUS	SION S	Serial	:20170707-0110551463 Pg 1of2
CUSTOM 424642	IER PURCI	HASE OF	RDER	IO. & ITEM	I	Constell 207814	lium ORDER N		CERTIFICATION Constellium Rolled Products, hereby certifies that metal shipped under this order has been
ALLOY 7075	CLAD	TEMPE T651	4.00	IGE 000 in 60 mm	WIDTH 48.500 1,232 r	00 in	LENGTH 144.50000 in 3,670 mm	- 1	inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard
SPEC PL MILL FINI	ATE, SAW	ED							General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road
CUSTOM AMS 4045	ER SPECI 5K	FICATIO	N						P.O. BOX 68 RAVENSWOOD, WV 26164 USA
752190	IMBER			B/L NUME 83547	BER	DATE 07/10/2	SHIPPED 2017		Steve Soul
WT. SHIP 8655.000	1.5 (Section Control		IO. OF 00003	PIECES	GOVT.	CONTRA	CT NO.		
									Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A AMS QQ-A-250/12A AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE **ASTM B209-14**

BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001559281	2,885.000	1,308.613	9600886	01		
1001559284	2,885.000	1,308.613	9600886	02		
1001559285	2,885.000	1,308.613	9600886	03		

Lot: 9600886

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(SI)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	70.6	70.7	56.2	56.4	12.0	12.0	

Tensile - Room Temperature (SI)

		Ultimate	(N/MM2)	Yield (N	I/MM2)	Elongati	on (%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	487	487	387	389	12.0	12.0	





P-860-155D REVISED: 10 2014



CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

H I P	A M CA 14001 (PARAMO 90723 US	ORANG	BE AVE			INCLUS	BION	S O L D T O Seri	A M CASTLE 1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US al:20170707-0110551463 Pg 2of2
ALLOY 0	R PURCE		RGAU		WIDTH 48.500	207814	LENGTH		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as
ITEM ORDI SPEC PLA MILL FINIS CUSTOME AMS 4045F	TE, SAWE H R SPECIF	ΕD	101.0	60 mm	1,232 n	T. T. 1111	3,670 mn		indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA
PART NUM 752190 WT. SHIPP	ED			B/L NUME 83547 PIECES		DATE : 07/10/2			Steve Sand
8655.000 L	В		000003						Steve Good - Laboratory Manager
Chemistry Core	(Actual) SI 0.0		CU 6 1.45	MN 0.06		:R ZN .20 5.0	31 35	ZR 3 0.0	
OTHERS-E	EACH: .05	MAX.	OTHERS	S TOTAL:	.15 MAX.	AL REM	AINDER		
All materia	I containe	ed in thi	s lot w	as cast an	d manufa	ctured in	the USA		
QUALITY AMC CA-15	TEXTS:								
THIS TE									

manufacture of our product.
"END OF CERTIFICATION"

SHIP TO:

HADCO METAL TRADING CO. LLC SHIP TO STOCK 555 STATE ROAD BENSALEM, PA 19020

SOLD TO:

HADCO METAL TRADING CO. LLC 555 STATE ROAD BENSALEM, PA 19020



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4486074



CUSTOMER PO NUMBER: WORK PACKAG 099766-15		RK PACKAGE:	CUSTOMER PA	RT NUMBER		HIP RUNILOAD: 04101/30	GOVTC	ONTRACT NUMBER	¥
		SHIP DATE: 15-NOV-20	7075				DESCRIPTION: elect Plate		
WEIGHT SHIPPED: QUANTITY: 7250 LB 8 PCS EST.			к в/L #: 0158	GAUGE: 1.2500 I	IN 31.7500 MM	48.500 IN	DTH: 231.9 MM)	144.500 IN	(3670.3 MM)

MHU 2171871: LOT 24860784: 5 pieces; MHU 2171873: LOT 24860784: 3 pieces;

D

Certified Specifications

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK PS 21211/RevP AMS-QQ-A-250/) 2/RevA ASTM B 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 1512 Lot: 248607B4

Cast 568

Test Results
Drop 01 Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651 Dir / # Tests LT / 3 (Min:Max)

Ultimate KSI 80.6 : 81.5

Ultimate KSI (MPA)

Yield KSI (MPA) 71.0:72.1 (490:497) Elongation % 13.2 : 13.9

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ZN ZR OTHER Actual(wt%) 0.08 0.18 1.5 0.03 2.4 0.19 5.7 0.03 0.01 0.01 TOT 0.03

ALLOY LIMITS

(556:562)

SI FE CU MN ZN TI ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 EACH 0.05 MAX(wt%) 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 0.05 TOT 0.15 Aluminum Remainder



CERTIFIED TEST REPORT

Serial Number 4486074

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

- Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

 * has been inspected, texted, and found to be in conformance with the requirements of the populations indicated herein.

 At less equipment and measuring devices are delibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as aboven herein and chemical in accordance applicable specification indicated with the population of tracture.

 **Above the population of the popul

was melted in the United States of America or a qualifying country per DFARS 225 872-1(a) was manufacturer in the united States of America, and meets the requirements of DFARS 252 225 for domestic content.

has been the maily processed in compliance with AMS 2772, where applicable.

is in comparance with RoHS 2 European Union Directive 2011/65/EU.

is in comparance with RoHS 2 European Union Directive 2011/65/EU.

is in comparance with RoHS 2 European Union Directive 2011/65/EU.

is free of Conflict Minerals, as defined in Section 15.7 of the Dodo-Frank Act

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JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD **SUITE 220** OAK BROOK, IL 60523



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4333140

CUSTOMER PO NUMBER	t:	WORK PA	CKAGE:	CUSTOMER PAR	T NUMBER:		SHIP	RUN/LOAD:	GOV'T C	ONTRACT NUMBE	R:
273385				750023			1029	916/29			
KAISER ORDER NO:	LINE ITE	M: SHIP	DATE:	ALLOY	CLAD:	TEMPE	R:	PRODUCT D	ESCRIPTI	ON:	
1170646	1	9-M	AY-2014	7075	BARE (T651)	Sawed Pl	ate		
WEIGHT SHIPPED:	QUANTI	TY:	TRUC	⟨ B/L #:	GAUGE: 0.2500 II			DIAMETER/WII 48.500 IN	DTH:	LENGTH: 144.500 IN	
2670 LB	2670 LB 15 PCS EST.		2047	2047789		(6.3500 MM)			31.9 MM)	144,000 114	(3670.3 MM)

MHU 1782826: LQT 682592A1; 15 pieces;

Certified Specifications

AMS 4045/RevK CMMP 025/RevU AMS-QQ-A-250/12/RevA

Test Results

ASTM B 209/Rev10

Test Code: 1512

Lot:\ 682592A1 Cast 619

Drop 19

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper

T651

Dir / # Tests

LT / 2 (Min:Max)

Ultimate KSI (MPA)

87.7:87.7

77.9:78.4 (605:605)

(537:541)

Yield KSI (MPA)

Elongation %

11.5:11.7

ZR

(ASTM E1251)

Chemistry: Actual(wt%)

SI 0.08

FE 0.16

CU 1.4

MN 0.02 MG CR 2.6 0.20

ZN 5.8

TI 0.02

0.02 0.01

OTHER 0.05 TOT



CERTIFIED TEST REPORT

Serial Number 4333140

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075 MIN(wt%) MAX(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1 6.1	0.00	0.00	0.00	EACH TOT	0.05 0.15
Aluminum Remainder												

ORDER COMMENTS

AMC CA-15409 R 3

AMS 4045,AMS QQ-A-250/12,ASTM B209,CMMP

025



CERTIFICATION

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.

* was melted in the United States of America or a qualifying country per DFARS 252.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

* has been thermally processed in compliance with AMS 2772, where applicable.

* is in mercury free, within the limits of detection of ASTM E1251 (< = 1 ppm).

* is in compliance with RoHS 2, European Union Directive 2011/85/EU.

* is in compliance with RoHS 2, European Union Directive 2011/85/EU.

* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in Any warranty is limited to that shown on Kaiser Aluminum Isbaratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402

PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

AISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4478423

CUSTOMER PO NUMBE	R: WC	RK PACKAGE:			T NUMBER:		SHIP	RUN/LOAD: GOV	T CONTRACT NUMBER	:
432058-1			750157		104		1040	044/21		
KAISER ORDER NO:		SHIP DATE:	ALL	OY:	CLAD:	TEMPE	3:/	PRODUCT DESCRI	PTION:	100
1241264-1		18-SEP-20	-SEP-2017 7075		BARE	BARE T651		Sawed Plate		
WEIGHT SHIPPED:	QUANTITY:	TRU	CK B/L#:		GAUGE:	, \		IAMETER/WIDTH:	LENGTH:	
3292 LB 6 PCS EST.		ST. 206	2069054		0.7500 IN (19.0500 MM)		100000 P	48.500 IN (1231.9 M	144.500 IN M)	(3670.3 MM)

MHU 2151088: LOT 234628B6: 6 pieces;

Certified Specifications

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK PS 21211/RevP

AMS-QQ-A-250/12/RevA ASTM B 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 1512

Lot: 234628B6

Cast 512

Drop 05

Test Results Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile: Temper

T651 LT / 2 (Min:Max)

Dir / # Tests

Ultimate KSI (MPA) 81.8:81.8

(564:564)

Yield KSI (MPA) 72.2:72.3

(498:499)

Elongation % 12.9:13.1

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ZN TI V ZR OTHER Actual(wt%) 0.08 0.18 1.5 0.04 2.5 0.20 5.5 0.03 0.01 0.01 TOT 0.03

ALLOY LIMITS

SI FE CU MG MN CR ZN TI ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 EACH 0.05 MAX(wt%) 0.40 0.50 2.0 0.30 2.9 0.28 0.20 0.05 6.1 0.05 TOT 0.15

Aluminum Remainder

ORDER COMMENTS AMC CA-15403 R 8





CERTIFIED TEST REPORT

Serial Number 4478423

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications Indicated herein.

All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 262.226 for domestic content. domestic content.

domestic content.

has been thermally processed in compliance with AMS 2772, where applicable.

Is mercury free, within the limits of detection of ASTM E1215 (<1ppm).

is in compliance with RoHS 2, European Union Directive 2011/65/EU.

is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.

Is tree of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of weld repair.

Is tree of well repair.

"meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

menman

Page 2 of 2

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523 KAISER

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4481839

CUSTOMER PO NUMBER: W 438454-1		PRK PACKAGE: CUSTOMER PA 750067					RUN/LOAD: 070/8	GOV'T C	ONTRACT NUMBER	i:	
KAISER ORDER NO: 1244225-1			SHIP DATE: ALLQY: 14-OCT-2017 7075		BARE T651		1	PRODUCT DE Sawed Pla		TO 0.100 PAROS	
WEIGHT SHIPPED: 3198 LB	QUANTITY:		20695	B/L #:	GAUGE: 0.3750 I	N 9.5250		DIAMETER/WID 48.500 IN (123	TH: 1.9 MM)	LENGTH: 144.500 IN	(3670.3 MM)

MHU 2157346: LOT 245158B1:) 12 pieces;

AMS 4045/RevL CMMP 025/RevV Certified Specifications

AMS-QQ-A-250/) 2/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 245158B1

Cast 534

Drop 25

Test Results

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651 Dir / # Tests LT / 3 (Min:Max) Ultimate KSI (MPA) 85.5:85.8

Yield KSI (MPA) 75.8: 76.0 Elongation %

(590:592)

(523:524)

13.3:13.5

(ASTM E1251)

Chemistry: SI CU TI FE MN MG CR ZN V ZR OTHER Actual(wt%) 0.10 0.17 1.5 0.04 2.5 5.8 0.19 0.03 0.01 0.02 TOT 0.03

ALLOY LIMITS

SI FE CU MN MG CR ZN TI V ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 **EACH** 0.05 MAX(wt%) 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 0.05 TOT 0.15

Aluminum Remainder

ORDER_COMMENTS AMC CA-15409 R 3





Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4481839

CERTIFICATION

- Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

 * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

 All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

 * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

- domestic content.

 has been thermally processed in compliance with AMS 2772, where applicable.

 Is mercury free, within the limits of detection of ASTM £1215 [<1ppm].

 is in compliance with RoHS 2, European Union Directive 2011/65/EU.

 is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kalser regularly monitors these regulations for updates.

 is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of Collina Ministria, as defined in Section 13.2. of the Dobo-Flair Act.

* is free of weld repair.

* meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kelser Aluminum laboratory. The recording of felse, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

lemennay

Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>M70</u> DATE:		50-375×6.000 PO/BATCH NO.: 038631/5030146
MATERIAL CERT REC'D: 1/2	es	THICKNESS ORDERED: 0.375
QUANTITY RECEIVED:	2911	THICKNESS RECEIVED: 0.375
QUANTITY INSPECTED:	29"	SHEET SIZE ORDERED: 11/A
QUANTITY REJECTED:	0	SHEET SIZE RECEIVED: V/A
	LNOD	
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	YN	
CORRECT FINISH	YN	
CORROSION	Y (1)	
CORRECT GRAIN DIRECTION	(Ý) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	4m5-QQ-A-250
CORRECT THICKNESS	(P) N	· · · · · · · · · · · · · · · · · · ·
PHOTO REQUIRED	YW	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 245138B1
DRRECT MATERIAL IDENTIFICATION	IN I ∕	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	SULTS BELOV	V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					<u> </u>

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testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: _	DAS 11	SIGNED OFF BY:
DATE:	9-89 JAN 0 9 7018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CORRECT M# ON THE MATERIAL

DOES THIS MATERIAL REQUIRE

ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 7075-16/162/1651 ALUMINUM SHEET OR PLATE **®**

QQ-A-250/J2 OR AMS-QQ-A-250/12 OR AMS-4045 OR ASTM B209 SPECIFICATION:

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE 8

SPECIFICATION: **B**

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M7075T6S TTT X W.WWW THK WIDTH

B PART NUMBER:

@

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WHERE ". TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TIT BY 4FT BY 10FT FOR SHEET B PREFERRED SIZE: MELEASED 2017 JUN 19 CO ECN 17-574

REV. B NTS SHEET 1 OF 17.05.05 10.11.08 DATE TITLE
7075-T6 SHEET/PLATE SPEC
COPYRIGHT & 240 BY DART AROSPACE LTD
TO SCOUNT OF SHEET OF SPECIFIC ORDER SPECIFIC OF THE SPECI DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M7075T6S CP ВУ R B ADD: REF TO "PLATE" - T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION CP ML LL LL D99 DATE 17.05.05 NEW ISSUE MFG. APPR. APPROVED CHECKED DRAWN DESIGN A REV. **APPROVED**

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	<i>M7075+6S0.75</i> JAN 0 9 2018	<u>O</u> x1.230 -	PO / BATCH NO.	:038631,	15030139
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _ QUANTITY INSPECTED: _ QUANTITY REJECTED: _	12'1 12'1	THIC	CKNESS ORDERED KNESS RECEIVED ET SIZE ORDERED ET SIZE RECEIVED	1.250 N/A	

	NO	CR	
DESCRIPTION	(Ch	eck	COMMENTS
	Y/	N) _	
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	Θ	Y	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	8	N	Am5-QQ-A250
CORRECT THICKNESS	(Ÿ)	N	
PHOTO REQUIRED	Y		
CORRECT REF # TO LINK CERT	(2)	N	Hest # 234628B6
CORRECT MATERIAL IDENTFICATION	0	N	
CORRECT M# ON THE MATERIAL	8	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Υ	1	
DOES THIS REQUIRE AN		2	
EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	ULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION			ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11		SIGNED OFF BY:
DATE:	9-89	JAN 0 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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B PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

0

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

B

OR.

B

SPECIFICATION:

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

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B

PART NUMBER:

B

M7075T6S.TTT X W.WWW |

WHERE ".TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

B PREFERRED SIZE:

.TTT BY 4FT BY 10FT FOR SHEET

RELEASED 2017 JUN 19 47

APPROVED DRAWN CHECKED MFG. APPR. APPROVED DESIGN REV. NEW ISSUE 주 유 쮸 09 M 7075-T6 SHEET/PLATE SPEC NTS DESCRIPTION

ADD: REF TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) HAWKESBURY, ONTARIO, CANADA DRAWING NO.
M7075T6S
SH DART AEROSPACE LTD CP 망유 SHEET 1 OF 1 17.05.05 10.11.08 DATE REV. B SCALE

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COPYRIGHT © 2010 BY DART AEROSPACE LTD IS FOUNT AND IS SUPPLIED ON THE EMPLOY OF HER STREAM WITHOUT THE DEFOLUTION OF THE PROPERTY OF THE PROP

17.05.05

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	<u>M 10 25 H6 56 : 000 X</u> JAN (1 9 : 2018	20,250 po/batch no.:038631/5030/38
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Yes 12" 12"	THICKNESS ORDERED: 0.250 THICKNESS RECEIVED: 0.250 SHEET SIZE ORDERED: V/A SHEET SIZE RECEIVED: V/A

DESCRIPTION	NCI (Che Y/N	ck	COMMENTS
SURFACE DAMAGE	Y (N	
CORRECT FINISH	8	Ν	
CORROSION	Y (\bigcirc	
CORRECT GRAIN DIRECTION	(Y)	Ν	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-250
CORRECT THICKNESS	(8)	N	
PHOTO REQUIRED	Y	N)	
CORRECT REF # TO LINK CERT	0	N	Heat # 682592A1
CORRECT MATERIAL IDENTFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (Ń	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.							
RECORD RESULTS BELOW							
HRC HRB DUR A DUR D WEBSTER							
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READING							

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	JAN 0 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION:

B

O

QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

SPECIFICATION:

B

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PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE OQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M7075T6S TTT X W.WWW |

B

PART NUMBER

8

WHERE ".TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

.TTT BY 4FT BY 10FT FOR SHEET

B PREFERRED SIZE:

SELEASED 2017 JUN 19 0

APPROVED CHECKED MFG. APPR. APPROVED DE APPR. DRAWN DESIGN REV. ADD: REF TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) NEW ISSUE 17.05.05 를 유 DS WW TO75-T6 SHEET/PLATE SPEC NTS
COPPRIENT & 2010 BY DART A EROSPACE LTD
THIS CONJUNCTION AND CONTROL HOUSE SEASON TO THE WORLD THE SEASON FROM TH DESCRIPTION M7075T6S DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO. BY R S SHEET 1 OF 1 17.05.05 10.11.08 DATE REV. B

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707			0x2.000 -	PO / BATCH	H NO.: <u>0,38</u>	631/503	0137
QUANTITY RECEIVED: 40 QUANTITY INSPECTED: 40 QUANTITY REJECTED: 90	es 8°1 9°1		_ THIC	CKNESS ORDE CKNESS RECE ET SIZE ORDE ET SIZE RECE	IVED: 1-2 RED: N		
DESCRIPTION (NCR Check Y/N)			COMMEN	TS	.,	
SURFACE DAMAGE	Y (N	1					1
CORRECT FINISH (Y) N			300		11 11 11 11 11 11 11 11 11 11 11 11 11	1
CORROSION	Y (N)						1
CORRECT GRAIN DIRECTION	Y) N						1
CORRECT MATERIAL PER M-DRAWING	Ý) N	Am S	-003-A-	250			1
	Y N	1300	100				
PHOTO REQUIRED	Y (N)						
		Hent	# 247	PLANKY	/		1
CORRECT MATERIAL IDENTFICATION		13409	11.010	100 1D7			
	Ý) N						
DOES THIS MATERIAL REQUIRE	7 '\		1891				
	Y (N)						
DOES THIS REQUIRE AN	1 100						
	(M)						
CUT SAMPLE PIECE (OF MA	ΓERIAL A	ND PREFOR	M A HARDNE	SS CHECK.		
			ULTS BELOV				
		HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL						1	
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READING	; <u> </u>						

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
100 65	DAS	
INSPECTED BY:	11	SIGNED OFF BY:
	9-89	
LDATE:	JAN U 9 Z018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 7075-16/162/1651 ALUMINUM SHEET OR PLATE

QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 SPECIFICATION:

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE **B**

B

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M7075T6S TTT X W.WWW THK WIDTH

B ADD: REF TO "PLATE" T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION NEW ISSUE A REV.

DESIGN MELEASED 2017 JUN 19 47 ECN 17-574

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7075-T6 SHEET/PLATE SPEC

COPYRIGHT © 2010 BY DART AEROSPACE LTD
THE DOOMAN'T SPIRATE AND CONTORNIA AND STREAD ON THE DESISS COME
HOT TO BE USED IT ON ANY PARROCKE ON COMMENCENTO TO ANY OTHER PRINCE.

17.05.05

DE APPR. DATE

REV. B SHEET 1 OF

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M7075T6S

CP CP WM WM WM

MFG. APPR. APPROVED DRAWN

APPROVED

10.11.08 17.05.05

CP RF

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SPECIFICATION:

B PART NUMBER:

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WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TTT BY 4FT BY 10FT FOR SHEET

0

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	M7075+651.7.503	×2250 P	O / BATCH NO.: 🗲	38631/503014
MATERIAL CERT REC'D:	Ves	THICKNE	ESS ORDERED:	1.750
QUANTITY RECEIVED:	48"	THICKNE	ESS RECEIVED:	1.250
QUANTITY INSPECTED:	4811	SHEET S	SIZE ORDERED:	NA
QUANTITY REJECTED:	0	SHEET S	IZE RECEIVED:	NIA
×-				7.

DESCRIPTION	(Ch	CR eck (N)	COMMENTS
SURFACE DAMAGE	Y	N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	N)	
CORRECT GRAIN DIRECTION	(Y)	M	
CORRECT MATERIAL PER M-DRAWING	M	N	Am5 BQ-A-250
CORRECT THICKNESS	(7)	N	
PHOTO REQUIRED	X	(N)	
CORRECT REF # TO LINK CERT	(8)	Ň	Hert# 70455083
CORRECT MATERIAL IDENTFICATION	8	N	
CORRECT M# ON THE MATERIAL	(8)	N	
DOES THIS MATERIAL REQUIRE		A	
ENGINEERING SIGN OFF	Υ	(N)	
DOES THIS REQUIRE AN		2	
EXTRUSION REPORT	Υ	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.								
RECORD RESULTS BELOW								
HRC HRB DUR A DUR D WEBSTER								
TYPE OF MATERIAL	- 15000 - 100 100 100 100 100 100 100 100 10							
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READING								

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	JAN 0 9 2003	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 7075-T6/162/T651 ALUMINUM SHEET OR PLATE

QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS-4645 OR ASTM B209 SPECIFICATION:

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE **8**

SPECIFICATION: **B**

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M7075T6S TTT X W.WWW THK WIDTH

B PART NUMBER:

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WHERE ".TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TTT BY 4FT BY 10FT FOR SHEET B ADD: REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION NEW ISSUE A NE REV. DESIGN DRAWN

10.11.08 17.05.05

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MELEASED 2017 JUN 19 47 ECN 17-574

LL M7075T6S SHEET/PLATE SPEC DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
F
M7075T6S
SHEE 쓔 임물 MFG. APPR. APPROVED CHECKED **APPROVED**

SCALE REV. B SHEET 1 OF 1

THE DOCUMENT IN THE DOCUMENT I

17.05.05

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